RECEIVED MAN 2 8 1005

MARCH 19, 1985

T0:

SUPERINTENDENT UTT

FROM:

SCOTT GERRICK, ENVIRONMENTAL CONTROL MANAGER

RE:

MALLARD LAKE DECEMBER 1984 WATER QUALITY REPORT

Attached for your review are the water quality analysis from the monitoring wells at Mallard Lake Landfill in December 1984. Water quality was also checked from E & E's office supply well.

No unusual or significant changes were noted.

Сj

Attachment

cc:

J. Hartwig

J. Wiggins, III. E.P.A.



TESTING SERVICE CORPORATION

457 EAST GUNDERSEN DR. • CAROL STREAM, ILLINOIS 60188-2492

Dr. Lawrence A. DuBose, P.E., S.E. President
Charles C. Luther, P.E. Executive Vice-President
Noble D. Moran Vice-President
Bruce R. Poynor Engineering Geologist
Charles R. DuBose, P.E.
Thomas J. Morris, P.E.
Scott B. Stueland, P.E.
Telephone 312 653-3920

March 15, 1985

FOREST PRESERVE DISTRICT OF DU PAGE COUNTY P. O. Box 2339 Glen Ellyn, Illinois 60138

Attention: Mr. Scott Gerrick

Environmental Control Mgr. Governmental Services Dept.

RE: L - 19,559A MALLARD LAKE SITE

Dear Mr. Gerrick:

We have completed the December, 1984 purging and sampling work for the above referenced site and have received the analytical results from Aqualab, Inc. Our field procedures in performing this work are as outlined in previous correspondence dated September 6, 1983, with the above number. Due to low water levels, or in-accessibility, Monitoring Wells G-102, G-107A, G-109, G-110 and G-111 were purged via bailer.

Water samples obtained from the monitoring wells and the leachate collection manhole were analyzed by Aqualab, Inc. for the following parameters: pH, Total Dissolved Solids, Chloride, Lead and Zinc. Data for Chromium are also included. This is because Chromium was originally analyzed rather than Chloride as intended. A water sample was also obtained from the E & E Hauling supply well at the site. This sample was analyzed for Alkalinty, Arsenic, Barium, Calcium, Chloride, Chromium, COD, Copper, Cyanide, Hardness, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Nitrogen, pH, Phenols, Potassium, Sodium, Solids (Total Dissolved), Sulfate, Zinc and TOC. The results obtained are shown on the enclosed Aqualab, Inc. Analytical Report. The identity of the sample numbers can be determined from the enclosed Chain of Custody Record.

Also enclosed are electronic spreadsheets for each well from our computer file established for this project. This lists the analytical data obtained this quarter as well as the previous seven (7) quarters, and compares them. No unusual or significant changes were noted.

Water level measurements and water sample temperatures, along with a depth measurement to the bottom of the well or sediment inside the casing, are shown on both the electronic spreadsheets and the enclosed Field Data Chart.

March 15, 1985
FOREST PRESERVE DISTRICT
OF DU PAGE COUNTY
Attention: Mr. Scott Gerrick

L - 19,559A Page 2

It has been a pleasure to assist you with this project. Please call if there are any questions or if we can be of any further service.

Respectfully submitted,

TESTING SERVICE CORPORATION

Lawrence A. DuBose

President

LAD:DJP:js

Enclosures:

Prepared by:

Daniel J. Plomb

Geologist

FIELD DATA CHART

	DATE 1984		* WATER LEVEL DEPTH IN FT. WITH ELEVATION			EVATION		DEPTH TO BOTTOM OF WELL OR
MONITORING WELL	PURGED	SAMPLED	PRIO PUR	R TO GING		R TO LING	WATER TEMP °F	SEDIMENT INSIDE CASING
G-101S	12-13-84	12-14-84	12.02	(792.62)	21.00	(783.64)	50	23.5
G-101D		12-14-84	39.11	(765.47)		(755.71)	49	54.6
G-102**	12-13-84	12-14-84	41.73	(767.22)	42.81	(766.14)	50	46.9
G-103	12-13-84	12-14-84	44.30	(756.98)	56.84	(744.44)	50	59.5
G-104A	12-13-84	12-14-84	64.88	(729.88)	64.83	(729.83)	49	95.6
G-105A	12-13-84	12-14-84	55.63	(731.81	55.58	(731.86)	49	102.3
G-106A	12-13-84	12-14-83	42.12	(738.52)	65.19	(715.45	50	72.3
G-107A**	12-13-84	12-14-84	17.41	(756.05	18.32	(755.14)	50	32.8
G-108S	12-13-84	12-14-84	17.84	(766.32	18.01	(766.15)	50	21.9
G-108D	12-13-84	12-14-84	38.47	(746.72	42.24	(742.95)	Insufficient Sample	48.3.
G-109**	12-13-84	12-14-84	20.53	(765.12)	25.48	(760.17)	50	33.7
G-110**	12-13-84	12-14-84	40.72	(765.07)	45.75	(760.04)	49	47.4
G~111**	12-13-84	12-14-84	39.05	(771.43)	40.97	(768.51)	Insufficient Sample	42.4
G-112	12-13-84	12-14-84	49.18	(764.33)	49.48	(764.03	49	58.6
G-113	12-13-84	12-14-84	41.48	(764.62)	47.03	(759.07)	49	53.0
		NOTES:	** Ind	icates we	lls pur	ged via ba	teel protect iler due to well to dri	

TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS SOISS

L- 19,559A

خة حجميوسيو.	CHAIN (OF CUSTODY RECORD					•
CLIENT: FOREST PRESERVE DISTRICT		PROJ: MALLARD LAKE		SAMPLER(S): D. Plomb & R. Harris			
SPL.	OF DU PAGE COUNTY SPL. LOCATION	DATE .	- TIME		PL.TYPE	MO. OF	NOTES
NO.	3/3. 300	1984		como.	grab	BTLS.	
675	G-101S	12-14	7:55		х	1	
676	G-101D	.12–14	7:45		х	1	
677	G-102	12-14	8:05		x	1	
678	G-103	12-14	8:10		х	1	
679	G-101S QA Split	12-14	7:55		х	1	
680	G-104	12-14	8:20		x	1	
681	G-113	12-14	8:40		х	1	
682	G-112	12-14	8:45		х	1 .	
683	G-111	12-14	8:55		х	1	
684	G-110	12-14	9:20		x	1	
685	G-109	12-14	9:35		х	1	
686	G-108S	12-14	9:50		х	1	
687	G-108D	12-14	9:55		х	1	
	RELINQUISHED BY		REC	EIVED	BY		DATE - TIME
TESTING SERVICE CORPORATION		AQUALAB, INC.				12-14-85	

TESTING SERVICE CORPORATION 457 EAST GUNDERSEN DRIVE CAROL STREAM, ILLINOIS GOISS L- 19,559A

			F CUSTODY			SAMPLER(S):			
			MALLARD I	AKE			lomb	& R. Harris	
SPL. NO.	SPL LOCATION	DATE - 1984	- TIME	WA	PL.TYPI TER		NO. OF TLS.	NOTES	
688	MANHOLE: Leachate Collection System	12-14	10:05		х		4		
689	· G-105A	12-14	10:20		х		1		
690	G 106A	12-14	10:40		x		1		
691	G-108A QA Split	12-14	9:55		х		1		
692	G-107A	12-14	10:55		х		1		
693	E & E BUILDING	12-14	11-15		х		2		
	RELINQUISHED BY		REC	EIVED	3 7			DATE - TIME	
TESTING SERVICE CORPORATION		AQUALAB, INC.					12-14-85		
•		1	•						



Sample No. 60806A-823A

Mr. Bruce Poyner
TESTING SERVICE CORP.
457 E. Gunderson Carol Stream IL 60188

Date Requested: 2/22/85

Sample Description	<u>Chloride</u>
	mg/L
675	14.
676	32.
677	<1.
678	2.
679	14.
680	2.
681	<1. ·
682	126.
683	2.
684	2.
685	2.
686	2.
687	4.
688	216.
689	36.
690	2.
691	4.
692	4.

Robert N. Bucaro



Sample No. 60824

Mr. Bruce Poyner
TESTING SERVICE CORP.
457 E. Gunderson
Carol Stream IL 60188

SAMPLE DESCRIPTION: 693

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Alkalinity (CaCO ₃)	216.	mg/L
Arsenic	<0.001	mg/L
Barium	<0.01	mg/L
Cadmium	<0.001	mg/L
Chloride	60.	mg/L
Chromium, tot.	<0.001	mg/L
COD	208.	mg/L
Copper	<0.001	mg/L
Cyanide, tot.	<0.001	mg/L
Hardness (CaCO ₃)	380.	mg/L
Iron, tot.	<0.01	mg/L
Lead	<0.01	mg/L
Magnesium	45.5	mg/L
Manganese	0.012	mg/L
Mercury	<0.0001	mg/L
Nickel	<0.01	mg/L
Nitrogen, ammonia	0.31	mg/L
pH	7.32	units
Phenols	<0.002	mg/L
Potassium	2.40	mg/L
Sodium Solids, tot. diss. Sulfate Zinc TOC	43.6 616. 135. 0.059 14.2	mg/L mg/L mg/L mg/L mg/L

Pobert N. Bucaro

312/289-3100



ANALYTICAL REPORT

Sample No. 60807

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 676

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.40	units
Solids, tot. diss.	457.	mg/L
Zinc	0.003	mg/L

Pobert 9 Bucaro
Robert N. Bucaro



Sample No. 60822

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 691

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	0.09	mg/L
Lead	<0.01	mg/L
pН	7.55	units
Solids, tot. diss.	1593.	mg/L
Zinc	0.006	mg/L

Pobet 1 Bucaso
Robert N. Bucaro

11 February 1985



ANALYTICAL REPORT

Sample No. 60809

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 678

Dute lakeli. 12/14/04 Dute licetived. 12/14/04	Date Taken:	12/14/84	Date Received:	12/14/84
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Filtered:

Chromium, tot.	<0.001	mg/L
Cirromrum, coc.		mg/ L
Iron	0.03	mg/L
Lead	<0.01	mg/L
рН	11.06	units
Solids, tot. diss.	1287.	mg/L
Zinc	<0.001	mg/L

Robert N. Bucaro



Sample No. 60820

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 689

Date	Taken:	12/14/84	Date Received:	12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.02	units
Solids, tot. diss.	757.	mg/L
Zinc	<0.001	mg/L

Robert N. Bucaro

11 February 1985



ANALYTICAL REPORT

Sample No. 60811

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 680

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L `
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рΗ	7.09	units
Solids, tot. diss.	547.	mg/L
Zinc	0.006	mg/L

Pobert 1 Bucaro
Robert N. Bucaro



Sample No. 60818

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 687

O-A- T-1	10/14/04	Dada Dagadou I	10/14/04
Date Taken:	17/14/84	Date Received:	17/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.58	units
Solids, tot. diss.	1460.	mg/L
Zinc	0.005	mg/L

Pobert 1 Bucaro
Robert N. Bucaro



Sample No. 60813

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 682

Date	Taken:	12/14/84	Date	Received:	12/14/84
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/-/-	54.00	110001104	16/17/UT

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
pH	6.83	units
Solids, tot. diss.	2063.	mg/L
Zinc	0.010	mg/L

Pobert 1 Bucaso Robert N. Bucaro



Sample No. 60816

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 685

Date Taken:	12/14/84	Date Received:	12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	6.84	units
Solids, tot. diss.	1313.	mg/L
Zinc	0.017	ma/L

Robert 1 Bucaro
Robert N. Bucaro





Sample No. 60815

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 684

Date Taken: 12/14/84 Date	Received: 12/14/84
---------------------------	--------------------

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.38	units
Solids, tot. diss.	523.	mg/L
Zinc	<0.001	mg/L
•		•

Robert N. Bucaro



Sample No. 60814

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 683

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.27	units
Solids, tot. diss.	550.	mg/L
Zinc	0.003	mg/L

Pobert 1 Bucaro Robert N. Bucaro



Sample No. 60817

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 686

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	6.60	units
Solids, tot. diss.	670.	mg/L
Zinc	0.012	mg/L

Pobert A Bucaro
Robert N. Bucaro



Sample No. 60812

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 681

Dada Taliana	10/14/04	Data Bassinada	10/14/04
Date Taken:	12/14/84	Date Received:	12/14/04

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рH	7.39	units
Solids, tot. diss.	410.	mg/L
Zinc	0.003	mg/L

Robert 1 Bucsio
Robert N. Bucaro



Sample No. 60819

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 688

Date Received: 12/14/84 Date Taken: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.58	units
Solids, tot. diss.	2183.	mg/L
Zinc	0.005	mg/L



Sample No. 60810

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 679

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.02	units
Solids, tot. diss.	590.	mg/L
Zinc	0.007	mg/L

Robert A Bucaro



Sample No. 60821

Mr. Bruce Poyner
TESTING SERVICE CORP.
457 E. Gunderson
Carol Stream IL 60188

SAMPLE DESCRIPTION: 690

Data	Takana	10/14/04	Doto Donofunda	19/14/04
vate	iaken:	12/14/84	Date Received:	12/14/04

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	11.31	units
Solids, tot. diss.	2810.	mg/L
Zinc	0.005	mg/L

Pobert 1 Rucaro
Robert N. Bucaro



Sample No. 60808

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 677

Data Taka	19/14/04	Data Dagatuada	12/14/04
vate lake	n: 12/14/84	Date Received:	12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
pН	7.26	units
Solids, tot. diss.	627.	mg/L
Zinc	<0.001	mg/L

Polet A Bucan Robert N. Bucaro

11 February 1985



ANALYTICAL REPORT

Sample No. 60806

Date Received: 12/14/84

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 675

Date Taken: 12/14/84

Filtered:			
	Chromium, tot.	<0.001	mg/L
	Iron	<0.01	mg/L
	Lead	<0.01	mg/L
	рН	7.38	units

Solids, tot. diss.

Zinc <0.001 mg/L

467.

Pohert N. Bucaro
Robert N. Bucaro

mg/L

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11 February 1985



ANALYTICAL REPORT

Sample No. 60806

Mr. Bri TESTINI 457 E. Carol S	. 38		
SAMPLE	675		
Date Ta	4	Date Received:	12/14/84
Filtere			
	um, tot.	<0.001	mg/L
		<0.01	mg/L
		<0.01	mg/L
		7.38	units
	, tot. diss.	467.	mg/L
		<0.001	mg/L

Pohert n Bucous Robert N. Bucaro

11 February 1985



ANALYTICAL REPORT

Sample No. 60823

Mr. Bruce Poyner TESTING SERVICE CORP. 457 E. Gunderson Carol Stream IL 60188

SAMPLE DESCRIPTION: 692

Date Taken: 12/14/84 Date Received: 12/14/84

Filtered:

Chromium, tot.	<0.001	mg/L
Iron	<0.01	mg/L
Lead	<0.01	mg/L
рН	7.10 ·	units
Solids, tot. diss.	507.	mg/L
Zinc	0.006	mg/L

Robert N. Bucaro